

### **ABSTRACT OF THE DISCLOSURE**

The invention teaches improved materials and processes for production of structures to shield against ingress or egress of electromagnetic radiation. The structures and processes taught are based on the recognition and use of directly electroplateable resins. The directly electroplateable resins are combined with electrodeposited metal-based coatings to result in uniquely suitable structures to achieve radiation shielding. Fabrication and compositional flexibility of directly electroplateable resins and low cost material possibilities contribute to the unique suitability of directly electroplateable resins in the production of improved electromagnetic radiation shields.